C.I. HIGHLIGHTS
SEPTEMBER, 1993

NEW BRANDS

R. J. REYNOLDS

WINSTON SELECT LIGHTS KS (SP & BOX)
WINSTON SELECT LIGHTS 100 (SP)
WINSTON SELECT SLIM LIGHTS 100 (BOX)

R. J. Reynolds began national shipments of four packings of ***Winston Select Lights. Winston Select Lights King Size (Soft Pack and Box)*** delivers 10 mg tar and 0.8 mg nicotine, and the 100 (Soft Pack) delivers 13 mg tar and 1.0 mg nicotine. ***Winston Select Slim Lights 100 (Box)*** delivers 10 mg tar and 0.8 mg nicotine. All packings have the Flavor Seal™ wrap with "Buy 1 Get 1 Free" printed in the upper/left corner and "Worth a Winston" coupon on the back. This introduction brings the Winston Select family to six packings.

R. J. REYNOLDS

JACKS

R. J. Reynolds is distributing eleven packings of ***Jacks*** cigarettes. This discount product is available in Diamond Shamrock Convenience Stores in Dallas, Texas. The blend of Jacks is similar to that of Monarch.

	Tar mg/cigt.	Nicotine mg/cigt.	Menthol mg/cigt.
KS Non-Filter (SP)	21	1.6	-
Full Flavor KS (SP)	13	0.9	-
Full Flavor Menthol KS (SP)	14	1.0	0.5
Lights KS (SP)	8	0.7	-
Lights Menthol KS (SP)	9	0.7	0.5
Ultra Lights KS (SP)	5	0.4	-
Full Flavor 100 (SP)	14	0.9	-
Full Flavor Menthol 100 (SP)	15	1.1	0.5
Lights 100 (SP)	9	0.8	-
Lights Menthol 100 (SP)	9	0.7	0.5
Ultra Lights 100 (SP)	4	0.3	-

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Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

R. J. REYNOLDS

DIRECTOR'S CHOICE

R. J. Reynolds is distributing eleven packings of ***Director's Choice*** cigarettes. This discount product was purchased in Beltsville, Maryland. The blend of Director's Choice is similar to that of Monarch.

	Tar mg/cigt.	Nicotine mg/cigt.	Menthol mg/cigt.
KS Non-Filter (SP)	22	1.5	-
Full Flavor KS (SP)	14	0.9	-
Full Flavor Menthol KS (SP)	14	1.0	0.6
Lights KS (SP)	10	0.8	-
Lights Menthol KS (SP)	11	0.7	0.6
Ultra Lights KS (SP)	5	0.5	-
Full Flavor 100 (SP)	15	1.0	-
Full Flavor Menthol 100 (SP)	15	1.0	0.5
Lights 100 (SP)	10	0.8	-
Lights Menthol 100 (SP)	9	0.7	0.5
Ultra Lights 100 (SP)	5	0.4	-

AMERICAN

SUMMIT

American is distributing eleven packings of the discount product, ***Summit.*** Summit is similar in smoke deliveries and blend to Prime and Private Stock.

	Tar mg/cigt.	Nicotine mg/cigt.	Menthol mg/cigt.
KS Non-Filter (SP)	22	1.4	-
Full Flavor KS (Box)	14	1.0	-
Full Flavor KS (SP)	15	1.1	-
Lights KS (Box)	10	0.8	-
Lights KS (SP)	10	0.8	-
Full Flavor 100 (SP)	15	1.1	-
Lights 100 (SP)	11	0.9	-
Full Flavor Menthol KS (SP)	16	1.1	0.5
Full Flavor Menthol 100 (SP)	15	1.0	0.5
Lights Menthol KS (SP)	11	0.8	0.4
Lights Menthol 100 (SP)	11	1.0	0.4

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AMERICAN

SPECIAL 10'S FULL FLAVOR KS & 100 (BOX)
SPECIAL 10'S LIGHTS KS & 100 (BOX)
SPECIAL 10'S MILDS MENTHOL 100 (BOX)

American is test marketing ***Special 10's*** cigarettes in California. This product is sold in 100-count cartons containing ten ten-packs. The Full Flavor products deliver 16 mg tar and 1.2 mg nicotine. ***Special 10's Lights*** and ***Milds Menthol*** deliver 12 mg tar, 0.9 mg nicotine and 0.5 mg menthol in smoke. Special 10's are similar in smoke deliveries and construction to Montclair.

LORILLARD

KENT SLIM LIGHTS 100 (BOX)

Lorillard is distributing Kent Slim Lights 100 (Box) cigarettes. This slim circumference brand delivers 10 mg tar and 0.9 mg nicotine.

LIGGETT

EAGLE

Liggett is distributing eleven packings of ***Eagle*** discount cigarettes. This product is available in Nebraska and Iowa. The Eagle blend contains 9% reconstituted tobacco and 8% expanded stems. Expanded tobacco (21%) is present only in the non-filter packing. Liggett discount products previously tested have contained approximately 24% expanded tobacco.

	Tar mg/cigt.	Nicotine mg/cigt.	Menthol mg/cigt.
KS Non-Filter (SP)	21	1.4	-
Full Flavor KS (SP)	16	1.0	-
Full Flavor Menthol KS (SP)	14	0.9	0.3
Lights KS (SP)	11	0.8	-
Lights Menthol KS (SP)	11	0.8	0.4
Ultra Lights KS (SP)	5	0.5	-
Full Flavor 100 (SP)	18	1.2	-
Full Flavor Menthol 100 (SP)	18	1.2	0.3
Lights 100 (SP)	12	1.0	-
Lights Menthol 100 (SP)	12	1.0	0.4
Ultra Lights 100 (SP)	7	0.6	-

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

JAPAN TOBACCO, INC.

WAVE KING SIZE (BOX)

Wave King Size, a discount product manufactured by Japan Tobacco, Inc., is being sold in California. This product has a 25 mm CA filter and delivers 16 mg tar and 1.0 mg nicotine. The blend contains 20% expanded stems and no reconstituted or expanded tobacco.

USA TOBACCO

USA KING SIZE (SP)

USA Tobacco in Richmond, Virginia is manufacturing ***USA King Size*** cigarettes. This product delivers 18 mg tar and 1.6 mg nicotine. The blend contains no reconstituted tobacco, expanded stems or expanded tobacco. The fiber content of the cigarette paper is woodpulp.

HOUSE OF SAMPOERNA

RAVE INTERNATIONAL LIGHTS 95 PLAIN & MENTHOL (BOX)

Rave International Lights cigarettes, manufactured by House of Sampoerna, Indonesia are being sold in North Carolina. These slim circumference products deliver 9 mg tar, 0.8 mg nicotine and 0.1 mg menthol in smoke.

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL FULL FLAVOR KS & 100 (SP)
DORAL FULL FLAVOR MENTHOL KS & 100 (SP)
DORAL LIGHTS KS & 100 (SP)
DORAL LIGHTS MENTHOL KS & 100 (SP)
DORAL ULTRA LIGHTS KS & 100 (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production Dorals. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings. ***Doral Full Flavor KS, Doral Full Flavor 100 (Plain & Menthol)*** and ***Doral Lights KS*** were lower in smoke deliveries. A second increase in expanded tobacco (22 to 26%) was observed for July production. A complete analysis of July production cigarettes is in progress.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

R. J. REYNOLDS

MAGNA KS (SP & BOX)
MAGNA LITES KS (SP & BOX)

An increase in expanded stems (4 to 8%) was observed for the ***Magna*** brand family. These products were also lower in smoke deliveries and total alkaloid content.

R. J. REYNOLDS

STERLING 100 (SP)
STERLING MENTHOL KS & 100 (SP)
STERLING LIGHTS 100 (SP)
STERLING LIGHTS MENTHOL KS & 100 (SP)
STERLING SLIM LIGHTS 100 PLAIN & MENTHOL (BOX)
STERLING ULTRA LIGHTS 100 PLAIN & MENTHOL (SP)

An increase in expanded stems (4 to 14%) was observed for the ***Sterling*** brand family. Lower total alkaloids were also noted.

R. J. REYNOLDS

MONARCH FULL FLAVOR KS & 100 (SP)
MONARCH FULL FLAVOR MENTHOL KS & 100 (SP)
MONARCH LIGHTS KS & 100 (SP)
MONARCH LIGHTS MENTHOL KS & 100 (SP)
MONARCH ULTRA LIGHTS KS & 100 (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

PACKAGING CHANGE

R. J. REYNOLDS

WINSTON SELECT KS (SP & BOX)

The Winston Select King Size (Soft Pack and Box) currently on the market underwent a graphics change at the same time the new Winston Select Lights were introduced. The name "Select" is larger than Winston on the new packaging and there is a blue "banner" under the word "Select." Lower smoke delivers were observed for the current packings, correlating with a more permeable cigarette paper and higher ventilation. All packings have the Flavor Seal™ wrap with "Buy 1 Get 1 Free" printed in the upper/left corner and "Worth a Winston" coupon on the back.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

WINSTON SELECT LIGHTS KS (SP & BOX)

Reynolds is nationally distributing ***Winston Select Lights KS (SP & Box).***

	Winston Select Lights King Size (Soft Pack)	Marlboro Lights King Size (Soft Pack)	Winston Select Lights King Size (Box)	Marlboro Lights King Size (Box)
Smoke				
Butt Length, mm	34	34	34	34
FTC Tar, mg/cigt.	10.5	11.2	9.9	11.1
Nicotine, mg/cigt.	0.79	0.79	0.78	0.78
Puffs/cigt.	8.5	8.8	8.6	8.6
Filtration Eff., %	55	54	56	54
CO, mg/cigt.	10.2	10.4	8.6	11.0
Cigarette				
Total RTD, mm of H_2O	118	123	111	122
Static Burn. Time, min.	8.6	8.2	8.7	8.2
Length, mm	83.8	84.0	83.1	83.1
Circumference, mm	24.8	24.9	24.6	24.9
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.6	Citrate/0.6	Citrate/0.6
Permeability, CORESTA Units	45	36	43	39
Fiber Type	Woodpulp	Flax	Woodpulp	Flax
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	89	99	91	98
Length, mm	26.8	27.0	26.9	27.0
Weight, g	0.16	0.17	0.16	0.16
Tipping Paper Length, mm/Color	31/White	31/White	31/White	31/White
Ventilation, %	18	22	29	22
Type/Rows of Holes	Laser/2	Laser/2	Laser/2	Laser/2
Filler				
Total Alkaloids, % (DWB)	1.88	2.04	1.82	2.00
Total Red. Sugars, % (DWB)	8.1	6.8	7.6	6.9
Reconstituted Tob., %	25	22	25	22
Expanded Stems, %	None	3	None	3
Expanded Tob., %	7	12	7	12
Wt. of Tob., g (12.5% OV)	0.707	0.673	0.668	0.661
Rod Density, g/cc	0.252	0.239	0.247	0.239

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

WINSTON SELECT LIGHTS 100 (SP)
WINSTON SELECT SLIM LIGHTS 100 (BOX)

Reynolds is nationally distributing ***Winston Select Lights 100 (SP)*** and ***Winston Select Slim Lights 100 (Box)***.

	Winston Select Lights 100 (Soft Pack)	Marlboro Lights 100 (Soft Pack)	Winston Select Slim Lights 100 (Box)	Virginia Slims Lights 100 (Box)
Smoke				
Butt Length, mm	38	39	38	39
FTC Tar, mg/cigt.	13.2	11.6	9.8	9.0
Nicotine, mg/cigt.	1.03	0.83	0.81	0.67
Puffs/cigt.	10.5	10.7	10.2	10.2
Filtration Eff., %	54	57	49	53
CO, mg/cigt.	13.8	11.6	7.4	8.4
Cigarette				
Total RTD, mm of H_2O	119	125	122	119
Static Burn. Time, min.	8.4	7.8	7.8	7.3
Length, mm	98.5	99.4	98.5	98.4
Circumference, mm	24.9	24.9	22.7	23.1
Paper				
Component Type/Percent	Citrate/1.0	Citrate/0.6	Citrate/0.9	Citrate/0.5
Permeability, CORESTA Units	50	32	38	42
Fiber Type	Woodpulp	Flax	Woodpulp	Flax
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	94	109	114	122
Length, mm	30.9	31.6	30.6	31.3
Weight, g	0.20	0.19	0.16	0.17
Tipping Paper Length, mm/Color	35/White	36/White	35/White	36/White
Ventilation, %	27	29	41	43
Type/Rows of Holes	Laser/2	Laser/2	Hauni Laser/1	Laser/2
Filler				
Total Alkaloids, % (DWB)	1.89	2.03	1.92	2.00
Total Red. Sugars, % (DWB)	8.1	7.1	7.7	6.9
Reconstituted Tob., %	25	22	25	22
Expanded Stems, %	None	3	None	3
Expanded Tob., %	7	12	7	12
Wt. of Tob., g (12.5% OV)	0.820	0.800	0.696	0.671
Rod Density, g/cc	0.245	0.239	0.249	0.235

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS KING SIZE NON-FILTER
DIRECTOR'S CHOICE KING SIZE NON-FILTER

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice.***

King Size Non-Filter

	Jacks	Director's Choice
Smoke		
Butt Length, mm	23	23
FTC Tar, mg/cigt.	21.1	22.4
Nicotine, mg/cigt.	1.55	1.51
Puffs/cigt.	8.5	9.1
Filler Rod TPM, mg/cigt.	25.1	22.4
CO, mg/cigt.	15.9	16.8
Cigarette		
Total RTD, mm of H_2O	84	86
Static Burn. Time, min.	7.3	-*
Length, mm	84.1	84.3
Circumference, mm	24.9	25.0
Firmness, mm	2.0	1.8
Oven Volatiles, % (Pack)	11.4	10.6
Loose Ends, g Tob. Lost/50 cigt.	0.838	0.775
Paper		
Component Type	Citrate	Citrate
Component Percent	0.6	0.6
Permeability, CORESTA Units	29	25
Fiber Type	Woodpulp	Woodpulp
Filler		
Total Alkaloids, % (DWB)	1.93	2.02
Total Red. Sugars, % (DWB)	5.6	6.0
Reconstituted Tob., %	30	30
Expanded Stems, %	6	6
Expanded Tob., %	22	22
Wt. of Tob., g (12.5% OV)	0.927	0.928
Rod Density, g/cc	0.223	0.222
Propylene Glycol, %	0.4	0.4
Glycerin, %	0.8	0.8

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS FULL FLAVOR KING SIZE (SP)
DIRECTOR'S CHOICE FULL FLAVOR KING SIZE (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Full Flavor King Size		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	28	28	28
FTC Tar, mg/cigt.	12.9	14.2	13.2
Nicotine, mg/cigt.	0.88	0.94	0.89
Puffs/cigt.	7.4	7.9	7.5
Filtration Eff., %	42	46	45
Filler Rod TPM, mg/cigt.	26.3	26.6	27.0
CO, mg/cigt.	14.2	15.3	12.4
Cigarette			
Total RTD, mm of H_2O	117	113	118
Static Burn. Time, min.	6.5	-*	6.7
Length, mm	83.6	83.9	83.9
Circumference, mm	24.8	24.9	24.9
Firmness, mm	2.7	1.9	2.9
Oven Volatiles, % (Pack)	11.8	10.1	14.0
Loose Ends, g Tob. Lost/50 cigt.	0.335	0.375	0.263
Paper			
Component Type/Percent	Citrate/0.6	Citrate/0.8	Citrate/0.5
Permeability, CORESTA Units	27	24	23
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	67	63	65
Length, mm	20.9	20.9	20.8
Weight, g	0.14	0.12	0.12
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork
Ventilation, %	11	7	10
Type/Rows of Holes	Laser/1	Hauni Laser/1	Laser/1
Triacetin, %	8.5	8.7	8.6
Filler			
Total Alkaloids, % (DWB)	1.52	1.91	1.70
Total Red. Sugars, % (DWB)	7.5	6.0	6.6
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.656	0.682	0.670
Rod Density, g/cc	0.213	0.220	0.215
Propylene Glycol, %	0.3	0.3	0.3
Glycerin, %	0.9	0.8	0.9

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS FULL FLAVOR MENTHOL KING SIZE (SP)
DIRECTOR'S CHOICE FULL FLAVOR MENTHOL KING SIZE (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Full Flavor Menthol King Size		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	28	28	28
FTC Tar, mg/cigt.	13.5	14.2	14.1
Nicotine, mg/cigt.	1.01	0.95	0.91
Puffs/cigt.	7.2	8.2	7.5
Filtration Eff., %	44	45	42
Filler Rod TPM, mg/cigt.	26.7	26.1	26.8
CO, mg/cigt.	13.6	15.1	13.8
Cigarette			
Total RTD, mm of H_2O	119	120	117
Static Burn. Time, min.	6.7	-*	6.9
Length, mm	83.6	83.5	84.1
Circumference, mm	24.8	24.7	24.8
Firmness, mm	2.5	2.4	2.5
Oven Volatiles, % (Pack)	12.0	11.3	11.9
Loose Ends, g Tob. Lost/50 cigt.	0.895	1.235	0.565
Paper			
Component Type/Percent	Citrate/0.5	Citrate/0.5	Citrate/0.6
Permeability, CORESTA Units	29	31	24
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	65	62	60
Length, mm	20.9	20.9	20.9
Weight, g	0.12	0.11	0.12
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork
Ventilation, %	6	6	8
Type/Rows of Holes	Laser/1	Laser/1	Laser/1
Triacetin, %	8.6	8.3	8.8
Filler			
Total Alkaloids, % (DWB)	1.82	1.81	1.76
Total Red. Sugars, % (DWB)	6.7	6.4	6.0
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.643	0.684	0.671
Rod Density, g/cc	0.209	0.225	0.217
Propylene Glycol, %	0.3	0.3	0.3
Glycerin, %	0.9	0.8	0.9
Menthol, mg/cigt.			
Smoke	0.52	0.58	0.47
Filler	1.9	2.1	1.9
Filter	1.2	1.1	1.1

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS LIGHTS KING SIZE (SP)
DIRECTOR'S CHOICE LIGHTS KING SIZE (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Lights King Size		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	34	34	34
FTC Tar, mg/cigt.	8.4	9.9	9.5
Nicotine, mg/cigt.	0.66	0.75	0.62
Puffs/cigt.	6.9	7.6	6.9
Filtration Eff., %	53	54	51
Filler Rod TPM, mg/cigt.	27.0	26.6	25.0
CO, mg/cigt.	9.3	10.8	10.1
Cigarette			
Total RTD, mm of H_2O	111	113	123
Static Burn. Time, min.	6.8	-*	6.7
Length, mm	83.4	83.6	84.0
Circumference, mm	24.9	24.8	24.8
Firmness, mm	2.8	2.0	2.9
Oven Volatiles, % (Pack)	11.9	10.4	13.0
Loose Ends, g Tob. Lost/50 cigt.	0.480	0.480	1.868
Paper			
Component Type/Percent	Citrate/0.5	Citrate/0.5	Citrate/0.6
Permeability, CORESTA Units	26	26	25
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	83	86	88
Length, mm	27.2	26.8	26.8
Weight, g	0.15	0.15	0.15
Tipping Paper Length, mm/Color	31/Cork	31/Cork	31/White
Ventilation, %	24	15	18
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	8.3	8.5	8.3
Filler			
Total Alkaloids, % (DWB)	1.38	1.92	1.69
Total Red. Sugars, % (DWB)	8.3	5.7	5.6
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.581	0.613	0.614
Rod Density, g/cc	0.210	0.220	0.219
Propylene Glycol, %	0.3	0.3	0.4
Glycerin, %	0.9	0.8	0.8

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS LIGHTS MENTHOL KING SIZE (SP)
DIRECTOR'S CHOICE LIGHTS MENTHOL KING SIZE (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Lights Menthol King Size		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	34	34	34
FTC Tar, mg/cigt.	9.3	10.8	9.8
Nicotine, mg/cigt.	0.68	0.74	0.71
Puffs/cigt.	7.0	7.4	6.9
Filtration Eff., %	50	55	53
Filler Rod TPM, mg/cigt.	25.4	27.3	24.8
CO, mg/cigt.	10.3	13.2	12.0
Cigarette			
Total RTD, mm of H_2O	121	126	123
Static Burn. Time, min.	7.3	-*	7.1
Length, mm	83.7	83.6	83.9
Circumference, mm	24.9	24.7	24.8
Firmness, mm	2.2	1.7	2.5
Oven Volatiles, % (Pack)	11.1	13.8	12.5
Loose Ends, g Tob. Lost/50 cigt.	0.955	0.390	0.460
Paper			
Component Type/Percent	Citrate/0.5	Citrate/0.6	Citrate/0.6
Permeability, CORESTA Units	26	28	24
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	88	84	83
Length, mm	27.1	26.5	26.8
Weight, g	0.15	0.15	0.15
Tipping Paper Length, mm/Color	31/White	31/White	31/White
Ventilation, %	19	9	18
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	8.5	8.0	8.6
Filler			
Total Alkaloids, % (DWB)	1.48	1.98	1.68
Total Red. Sugars, % (DWB)	7.2	5.4	6.6
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.608	0.612	0.610
Rod Density, g/cc	0.217	0.220	0.218
Propylene Glycol, %	0.3	0.3	0.4
Glycerin, %	0.8	0.9	0.9
Menthol, mg/cigt.			
Smoke	0.48	0.56	0.38
Filler	2.0	2.2	2.1
Filter	2.0	1.8	1.9

*Insufficient sample received to conduct all tests.

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NEW BRANDS

R. J. REYNOLDS

JACKS ULTRA LIGHTS KING SIZE (SP)
DIRECTOR'S CHOICE ULTRA LIGHTS KING SIZE (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

Ultra Lights King Size

	Jacks	Director's Choice	Monarch
Smoke			
Butt Length, mm	34	34	34
FTC Tar, mg/cigt.	4.8	5.4	5.1
Nicotine, mg/cigt.	0.42	0.48	0.45
Puffs/cigt.	8.0	9.2	9.2
Filtration Eff., %	57	59	58
Filler Rod TPM, mg/cigt.	28.3	28.7	33.8
CO, mg/cigt.	5.5	4.8	6.0
Cigarette			
Total RTD, mm of H_2O	96	95	96
Static Burn. Time, min.	7.5	-*	8.6
Length, mm	83.7	83.8	84.1
Circumference, mm	24.9	24.8	24.9
Firmness, mm	2.9	2.0	2.6
Oven Volatiles, % (Pack)	12.1	10.4	12.3
Loose Ends, g Tob. Lost/50 cigt.	0.390	0.690	0.240
Paper			
Component Type/Percent	Phosphorus/0.1	Phosphorus/0.1	Phosphorus/0.1
Permeability, CORESTA Units	26	24	19
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	110	111	109
Length, mm	26.3	26.8	26.9
Weight, g	0.17	0.17	0.17
Tipping Paper Length, mm/Color	31/White	31/White	31/White
Ventilation, %	57	55	58
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	6.8	6.8	6.7
Filler			
Total Alkaloids, % (DWB)	1.57	1.99	1.71
Total Red. Sugars, % (DWB)	6.8	5.6	7.2
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.601	0.609	0.618
Rod Density, g/cc	0.213	0.219	0.219
Propylene Glycol, %	0.3	0.3	0.4
Glycerin, %	0.9	0.9	0.9

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS FULL FLAVOR 100 (SP)
DIRECTOR'S CHOICE FULL FLAVOR 100 (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

		Full Flavor 100	
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	38	38	38
FTC Tar, mg/cigt.	13.7	15.0	14.5
Nicotine, mg/cigt.	0.92	1.04	1.07
Puffs/cigt.	8.3	8.6	8.4
Filtration Eff., %	50	52	52
Filler Rod TPM, mg/cigt.	27.1	31.4	29.0
CO, mg/cigt.	16.5	18.8	16.5
Cigarette			
Total RTD, mm of H_2O	137	135	139
Static Burn. Time, min.	7.5	-*	6.8
Length, mm	98.4	98.6	98.6
Circumference, mm	24.9	24.9	24.8
Firmness, mm	2.8	2.2	2.8
Oven Volatiles, % (Pack)	12.4	10.8	13.1
Loose Ends, g Tob. Lost/50 cigt.	0.580	0.430	0.210
Paper			
Component Type/Percent	Phosphorus/0.1	Phosphorus/0.1	Phosphorus/0.1
Permeability, CORESTA Units	29	24	23
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	72	75	80
Length, mm	30.9	30.9	30.7
Weight, g	0.15	0.17	0.17
Tipping Paper Length, mm/Color	35/Cork	35/Cork	35/Cork
Ventilation, %	None	None	None
Triacetin, %	7.8	7.5	7.5
Filler			
Total Alkaloids, % (DWB)	1.47	1.85	1.79
Total Red. Sugars, % (DWB)	7.6	5.6	6.9
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.716	0.722	0.724
Rod Density, g/cc	0.215	0.216	0.218
Propylene Glycol, %	0.3	0.3	0.3
Glycerin, %	0.8	0.8	0.8

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS FULL FLAVOR MENTHOL 100 (SP)
DIRECTOR'S CHOICE FULL FLAVOR MENTHOL 100 (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Full Flavor Menthol 100		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	38	38	38
FTC Tar, mg/cigt.	15.3	15.2	14.5
Nicotine, mg/cigt.	1.08	1.05	0.92
Puffs/cigt.	8.3	8.3	8.3
Filtration Eff., %	52	55	52
Filler Rod TPM, mg/cigt.	30.5	29.2	28.7
CO, mg/cigt.	16.7	18.2	17.2
Cigarette			
Total RTD, mm of H_2O	135	136	141
Static Burn. Time, min.	7.9	-*	7.5
Length, mm	98.7	99.0	98.7
Circumference, mm	24.9	24.8	24.8
Firmness, mm	2.7	2.2	2.8
Oven Volatiles, % (Pack)	12.2	11.0	12.6
Loose Ends, g Tob. Lost/50 cigt.	0.487	0.660	0.795
Paper			
Component Type/Percent	Phosphorus/0.1	Phosphorus/0.1	Phosphorus/0.1
Permeability, CORESTA Units	27	23	23
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	73	80	76
Length, mm	30.7	31.1	30.9
Weight, g	0.17	0.18	0.17
Tipping Paper Length, mm/Color	35/Cork	35/Cork	35/Cork
Ventilation, %	None	None	None
Triacetin, %	7.4	7.0	7.4
Filler			
Total Alkaloids, % (DWB)	1.79	1.79	1.52
Total Red. Sugars, % (DWB)	6.7	6.6	6.3
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.720	0.692	0.733
Rod Density, g/cc	0.215	0.208	0.221
Propylene Glycol, %	0.3	0.3	0.3
Glycerin, %	0.8	0.8	0.8
Menthol, mg/cigt.			
Smoke	0.52	0.51	0.48
Filler	2.0	1.9	2.2
Filter	1.4	1.6	1.2

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS LIGHTS 100 (SP)
DIRECTOR'S CHOICE LIGHTS 100 (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Lights 100		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	38	38	38
FTC Tar, mg/cigt.	9.3	10.0	9.5
Nicotine, mg/cigt.	0.79	0.76	0.76
Puffs/cigt.	8.5	8.7	8.4
Filtration Eff., %	58	52	48
Filler Rod TPM, mg/cigt.	27.8	24.8	23.8
CO, mg/cigt.	10.5	10.5	9.5
Cigarette			
Total RTD, mm of H_2O	99	100	96
Static Burn. Time, min.	6.4	-*	6.2
Length, mm	98.4	98.3	98.8
Circumference, mm	24.9	24.9	24.8
Firmness, mm	2.5	2.4	2.9
Oven Volatiles, % (Pack)	11.7	10.8	12.6
Loose Ends, g Tob. Lost/50 cigt.	0.562	0.375	0.625
Paper			
Component Type	Citrate/0.9	Citrate/1.0	Citrate/0.9
Permeability, CORESTA Units	40	42	37
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	75	79	76
Length, mm	30.8	31.1	31.0
Weight, g	0.17	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White	35/White
Ventilation, %	34	28	34
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	7.5	7.4	7.6
Filler			
Total Alkaloids, % (DWB)	1.65	1.92	1.74
Total Red. Sugars, % (DWB)	7.5	5.8	7.0
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.726	0.717	0.709
Rod Density, g/cc	0.217	0.217	0.214
Propylene Glycol, %	0.3	0.3	0.3
Glycerin, %	0.8	0.9	0.8

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS LIGHTS MENTHOL 100 (SP)
DIRECTOR'S CHOICE LIGHTS MENTHOL 100 (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Lights Menthol 100		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	38	38	38
FTC Tar, mg/cigt.	9.2	9.3	9.8
Nicotine, mg/cigt.	0.73	0.73	0.76
Puffs/cigt.	8.4	8.3	8.6
Filtration Eff., %	53	52	50
Filler Rod TPM, mg/cigt.	23.5	24.3	26.3
CO, mg/cigt.	9.5	9.7	9.4
Cigarette			
Total RTD, *mm* of H_2O	94	101	96
Static Burn. Time, min.	6.2	-*	6.3
Length, mm	98.8	98.9	98.9
Circumference, mm	24.9	24.7	24.9
Firmness, mm	2.6	-*	2.6
Oven Volatiles, % (Pack)	12.1	-*	12.3
Loose Ends, g Tob. Lost/50 cigt.	0.325	-*	0.790
Paper			
Component Type/Percent	Citrate/0.9	Citrate/1.0	Citrate/1.0
Permeability, CORESTA Units	47	46	40
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, *mm* of H_2O	71	81	73
Length, mm	30.7	30.8	30.9
Weight, g	0.17	0.18	0.17
Tipping Paper Length, mm/Color	35/White	35/White	35/White
Ventilation, %	35	32	32
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	7.0	7.1	6.9
Filler			
Total Alkaloids, % (DWB)	1.58	1.98	1.70
Total Red. Sugars, % (DWB)	6.8	5.6	6.7
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.726	0.708	0.727
Rod Density, g/cc	0.217	0.214	0.217
Propylene Glycol, %	0.4	0.3	0.4
Glycerin, %	0.9	0.8	0.9
Menthol, mg/cigt.			
Smoke	0.46	0.49	0.47
Filler	2.7	2.5	2.7
Filter	2.1	2.2	2.1

*Insufficient sample received to conduct all tests.

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Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

R. J. REYNOLDS

JACKS ULTRA LIGHTS 100 (SP)
DIRECTOR'S CHOICE ULTRA LIGHTS 100 (SP)

Reynolds is distributing eleven packings of ***Jacks*** and ***Director's Choice***.

	Ultra Lights 100		
	Jacks	**Director's Choice**	**Monarch**
Smoke			
Butt Length, mm	38	38	38
FTC Tar, mg/cigt.	4.0	5.2	3.8
Nicotine, mg/cigt.	0.34	0.38	0.32
Puffs/cigt.	8.7	8.8	8.6
Filtration Eff., %	62	64	65
Filler Rod TPM, mg/cigt.	24.7	33.1	22.5
CO, mg/cigt.	5.0	6.1	5.8
Cigarette			
Total RTD, mm of H_2O	111	114	116
Static Burn. Time, min.	6.0	-*	5.7
Length, mm	98.3	98.8	99.0
Circumference, mm	24.8	24.9	24.8
Firmness, mm	2.8	2.3	2.9
Oven Volatiles, % (Pack)	11.9	10.9	13.0
Loose Ends, g Tob. Lost/50 cigt.	0.925	0.665	2.060
Paper			
Component Type/Percent	Citrate/0.9	Citrate/1.0	Citrate/0.9
Permeability, CORESTA Units	41	41	39
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	136	125	135
Length, mm	31.0	30.5	31.2
Weight, g	0.20	0.19	0.20
Tipping Paper Length, mm/Color	35/White	35/White	35/White
Ventilation, %	57	51	55
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Triacetin, %	6.7	6.5	6.6
Filler			
Total Alkaloids, % (DWB)	1.45	1.79	1.60
Total Red. Sugars, % (DWB)	7.7	6.5	6.4
Reconstituted Tob., %	30	30	30
Expanded Stems, %	6	6	6
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.728	0.718	0.713
Rod Density, g/cc	0.222	0.213	0.215
Propylene Glycol, %	0.3	0.3	0.4
Glycerin, %	0.9	0.9	0.9

*Insufficient sample received to conduct all tests.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SUMMIT KING SIZE NON-FILTER (SP)
SUMMIT FULL FLAVOR KING SIZE (SP & Box)

American is distributing eleven packings of ***Summit***.

	Summit		
	King Size Non-Filter (SP)	**Full Flavor King Size (Box)**	**Full Flavor King Size (SP)**
Smoke			
Butt Length, mm	23	27	27
FTC Tar, mg/cigt.	21.9	13.8	15.4
Nicotine, mg/cigt.	1.45	1.01	1.11
Puffs/cigt.	9.1	7.6	8.6
Filtration Eff., %	-	39	39
Filler Rod TPM, mg/cigt.	29.8	25.0	28.5
CO, mg/cigt.	14.6	11.6	14.1
Cigarette			
Total RTD, mm of H_2O	70	109	106
Static Burn. Time, min.	7.3	6.7	7.2
Length, mm	84.3	83.1	85.2
Circumference, mm	24.9	24.8	24.9
Paper			
Component Type/Percent	Citrate/0.8	Citrate/0.7	Citrate/0.6
Permeability, CORESTA Units	18	42	25
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type	-	CA	CA
RTD, mm of H_2O	-	58	55
Length, mm	-	19.8	20.0
Weight, g	-	0.13	0.13
Tipping Paper Length, mm/Color	-	24/Cork	24/Cork
Ventilation, %	-	12	17
Type/Rows of Holes	-	Laser/1	Laser/1
Filler			
Total Alkaloids, % (DWB)	1.90	1.93	1.86
Total Red. Sugars, % (DWB)	7.7	7.8	8.1
Reconstituted Tob., %	27	27	27
Expanded Stems, %	None	None	None
Expanded Tob., %	22	22	22
Wt. of Tob., g (12.5% OV)	0.891	0.692	0.731
Rod Density, g/cc	0.214	0.223	0.227

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SUMMIT LIGHTS KING SIZE (SP & BOX)

American is distributing eleven packings of *Summit*.

	Summit	
	Lights King Size (Box)	Lights King Size (SP)
Smoke		
Butt Length, mm	33	33
FTC Tar, mg/cigt.	10.1	10.2
Nicotine, mg/cigt.	0.75	0.79
Puffs/cigt.	7.2	7.8
Filtration Eff., %	48	47
Filler Rod TPM, mg/cigt.	27.5	27.2
CO, mg/cigt.	10.0	8.0
Cigarette		
Total RTD, mm of H_2O	119	111
Static Burn. Time, min.	6.8	6.8
Length, mm	83.0	83.2
Circumference, mm	24.8	25.0
Paper		
Component Type/Percent	Citrate/0.6	Citrate/0.6
Permeability, CORESTA Units	31	25
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	84	82
Length, mm	24.8	25.0
Weight, g	0.18	0.18
Tipping Paper Length, mm/Color	30/Cork	30/Cork
Ventilation, %	22	31
Type/Rows of Holes	Laser/2	Laser/2
Filler		
Total Alkaloids, % (DWB)	1.80	1.91
Total Red. Sugars, % (DWB)	7.5	8.1
Reconstituted Tob., %	27	27
Expanded Stems, %	None	None
Expanded Tob., %	22	22
Wt. of Tob., g (12.5% OV)	0.611	0.637
Rod Density, g/cc	0.214	0.220

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SUMMIT FULL FLAVOR 100 (SP)
SUMMIT LIGHTS 100 (SP)

American is distributing eleven packings of ***Summit***.

	Summit	
	Full Flavor 100 (SP)	**Lights 100 (SP)**
Smoke		
Butt Length, mm	38	38
FTC Tar, mg/cigt.	15.2	11.0
Nicotine, mg/cigt.	1.08	0.91
Puffs/cigt.	8.6	9.1
Filtration Eff., %	50	54
Filler Rod TPM, mg/cigt.	28.1	28.8
CO, mg/cigt.	15.3	10.7
Cigarette		
Total RTD, mm of H_2O	115	119
Static Burn. Time, min.	7.2	7.3
Length, mm	98.8	98.5
Circumference, mm	24.4	24.5
Paper		
Component Type/Percent	Citrate/0.8	Citrate/0.8
Permeability, CORESTA Units	20	19
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	57	99
Length, mm	30.7	30.8
Weight, g	0.17	0.20
Tipping Paper Length, mm/Color	35/Cork	35/Cork
Ventilation, %	9	28
Type/Rows of Holes	Laser/1	Laser/2
Filler		
Total Alkaloids, % (DWB)	1.92	1.86
Total Red. Sugars, % (DWB)	7.4	6.9
Reconstituted Tob., %	27	27
Expanded Stems, %	None	None
Expanded Tob., %	22	22
Wt. of Tob., g (12.5% OV)	0.702	0.719
Rod Density, g/cc	0.217	0.223

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SUMMIT FULL FLAVOR MENTHOL KING SIZE & 100 (SP)

American is distributing eleven packings of *Summit*.

	Summit	
	Full Flavor Menthol King Size (SP)	**Full Flavor Menthol 100 (SP)**
Smoke		
Butt Length, mm	27	38
FTC Tar, mg/cigt.	15.6	14.9
Nicotine, mg/cigt.	1.14	1.03
Puffs/cigt.	8.7	8.5
Filtration Eff., %	41	50
Filler Rod TPM, mg/cigt.	27.8	29.5
CO, mg/cigt.	12.3	13.8
Cigarette		
Total RTD, mm of H_2O	114	114
Static Burn. Time, min.	7.1	7.2
Length, mm	85.1	99.1
Circumference, mm	24.8	24.5
Paper		
Component Type/Percent	Citrate/0.6	Citrate/0.8
Permeability, CORESTA Units	25	23
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	59	59
Length, mm	19.9	30.4
Weight, g	0.13	0.17
Tipping Paper Length, mm/Color	24/Cork	35/Cork
Ventilation, %	15	10
Type/Rows of Holes	Laser/1	Laser/1
Filler		
Total Alkaloids, % (DWB)	1.86	1.86
Total Red. Sugars, % (DWB)	6.5	7.6
Reconstituted Tob., %	27	27
Expanded Stems, %	None	None
Expanded Tob., %	22	22
Wt. of Tob., g (12.5% OV)	0.723	0.693
Rod Density, g/cc	0.226	0.210
Menthol, mg/cigt.		
Smoke	0.54	0.50
Filler	2.2	2.0
Filter	1.3	1.7

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SUMMIT LIGHTS MENTHOL KING SIZE & 100 (SP)

American is distributing eleven packings of *Summit*.

	Summit	
	Lights Menthol King Size (SP)	**Lights Menthol 100 (SP)**
Smoke		
Butt Length, mm	33	38
FTC Tar, mg/cigt.	11.1	11.1
Nicotine, mg/cigt.	0.84	0.96
Puffs/cigt.	8.0	9.2
Filtration Eff., %	47	51
Filler Rod TPM, mg/cigt.	31.5	29.5
CO, mg/cigt.	9.8	11.9
Cigarette		
Total RTD, mm of H_2O	128	130
Static Burn. Time, min.	7.8	7.3
Length, mm	83.1	98.6
Circumference, mm	24.9	24.5
Paper		
Component Type/Percent	Citrate/0.8	Citrate/0.8
Permeability, CORESTA Units	20	19
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	89	93
Length, mm	24.9	30.5
Weight, g	0.18	0.20
Tipping Paper Length, mm/Color	30/White	35/White
Ventilation, %	20	25
Type/Rows of Holes	Laser/2	Laser/2
Filler		
Total Alkaloids, % (DWB)	1.85	1.93
Total Red. Sugars, % (DWB)	7.9	6.4
Reconstituted Tob., %	27	27
Expanded Stems, %	None	None
Expanded Tob., %	22	22
Wt. of Tob., g (12.5% OV)	0.683	0.744
Rod Density, g/cc	0.238	0.228
Menthol, mg/cigt.		
Smoke	0.36	0.41
Filler	2.0	2.5
Filter	1.7	2.6

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SPECIAL 10'S FULL FLAVOR KING SIZE & 100 (BOX)

American is test marketing ***Special 10's*** in California.

Special 10's

	Full Flavor King Size (Box)	Full Flavor 100 (Box)
Smoke		
Butt Length, mm	27	38
FTC Tar, mg/cigt.	16.4	16.5
Nicotine, mg/cigt.	1.20	1.23
Puffs/cigt.	8.8	9.2
Filtration Eff., %	45	47
Cigarette		
Total RTD, mm of H_2O	108	110
Length, mm	83.4	99.4
Circumference, mm	24.9	24.4
Paper		
Component Type/Percent	Citrate/0.5	Citrate/0.9
Permeability, CORESTA Units	57	21
Fiber Type	Flax	Flax
Filter		
Type	CA	CA
RTD, mm of H_2O	67	66
Length, mm	19.9	30.8
Weight, g	0.13	0.17
Tipping Paper Length, mm/Color	24/Cork	35/Cork
Ventilation, %	13	8
Type/Rows of Holes	Laser/1	Laser/1
Filler		
Total Alkaloids, % (DWB)	1.83	1.89
Total Red. Sugars, % (DWB)	8.5	7.8
Reconstituted Tob., %	22	22
Expanded Stems, %	None	None
Expanded Tob., %	18	18
Wt. of Tob., g (12.5% OV)	0.758	0.748
Rod Length, mm	63.5	68.6
Rod Density, g/cc	0.241	0.230

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

AMERICAN

SPECIAL 10'S LIGHTS KING SIZE & 100 (BOX)
SPECIAL 10'S MILDS MENTHOL 100 (BOX)

American is test marketing ***Special 10's*** in California.

		Special 10's	
	Lights King Size (Box)	**Lights 100 (Box)**	**Milds Menthol 100 (Box)**
Smoke			
Butt Length, mm	33	38	38
FTC Tar, mg/cigt.	11.5	12.0	12.1
Nicotine, mg/cigt.	0.89	0.99	0.92
Puffs/cigt.	7.4	9.6	9.1
Filtration Eff., %	49	50	50
Cigarette			
Total RTD, mm of H_2O	114	120	121
Length, mm	83.5	99.1	99.0
Circumference, mm	24.9	24.5	24.4
Paper			
Component Type/Percent	Citrate/0.9	Citrate/0.9	Citrate/0.6
Permeability, CORESTA Units	27	28	28
Fiber Type	Flax	Flax	Flax
Filter			
Type	CA	CA	CA
RTD, mm of H_2O	85	89	91
Length, mm	24.9	30.9	31.0
Weight, g	0.17	0.18	0.19
Tipping Paper Length, mm/Color	30/White	35/White	35/White
Ventilation, %	19	26	25
Type/Rows of Holes	Laser/2	Laser/2	Laser/2
Filler			
Total Alkaloids, % (DWB)	1.91	1.91	1.87
Total Red. Sugars, % (DWB)	8.0	8.2	7.5
Reconstituted Tob., %	22	22	22
Expanded Stems, %	None	None	None
Expanded Tob., %	18	18	18
Wt. of Tob., g (12.5% OV)	0.678	0.781	0.745
Rod Length, mm	58.6	68.2	68.0
Rod Density, g/cc	0.235	0.240	0.231
Menthol, mg/cigt.			
Smoke	-	-	0.54
Filler	-	-	2.8
Filter	-	-	2.6

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

LORILLARD

KENT SLIM LIGHTS 100 (BOX)

Lorillard is distributing ***Kent Slim Lights 100 (Box)*** cigarettes.

	Kent Slim Lights 100 (Box)	Virginia Slims Lights 100 (Box)
Smoke		
Butt Length, mm	38	39
FTC Tar, mg/cigt.	10.0	9.0
Nicotine, mg/cigt.	0.85	0.67
Puffs/cigt.	9.2	10.2
Filtration Eff., %	50	53
Filler Rod TPM, mg/cigt.	26.5	-
CO, mg/cigt.	11.0	8.4
Cigarette		
Total RTD, mm of H_2O	162	119
Static Burn, Time, min.	7.0	7.3
Length, mm	98.9	98.4
Circumference, mm	23.2	23.1
Paper		
Component Type/Percent	Citrate/2.1	Citrate/0.5
Permeability, CORESTA Units	32	42
Filter		
Type	CA	CA
RTD, mm of H_2O	102	122
Length, mm	29.8	31.3
Weight, g	0.15	0.17
Tipping Paper Length, mm/Color	35/White	36/White
Ventilation, %	31	43
Type/Rows of Holes	Mechanical/2	Laser/2
Filler		
Total Alkaloids, % (DWB)	2.13	2.00
Total Red. Sugars, % (DWB)	7.2	6.9
Reconstituted Tob., %	27	22
Expanded Stems, %	None	3
Expanded Tob., %	11	12
Wt. of Tob., g (12.5% OV)	0.742	0.671
Rod Density, g/cc	0.252	0.235

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

LIGGETT

EAGLE KS NON-FILTER (SP)
EAGLE KS PLAIN & MENTHOL (SP)

Liggett is distributing eleven packings of ***Eagle*** discount cigarettes.

	Eagle		
	King Size Non-Filter (SP)	**King Size Full Flavor (SP)**	**King Size Full Flavor Menthol (SP)**
Smoke			
Butt Length, mm	23	33	33
FTC Tar, mg/cigt.	20.6	15.5	14.2
Nicotine, mg/cigt.	1.37	1.01	0.92
Puffs/cigt.	9.0	8.0	7.5
Filler Rod TPM, mg/cigt.	26.6	30.1	28.1
CO, mg/cigt.	12.4	12.3	12.7
Cigarette			
Total RTD, mm of H_2O	75	106	111
Static Burn, Time, min.	7.0	8.2	7.7
Length, mm	84.0	83.7	83.8
Circumference, mm	25.1	24.7	24.7
Paper			
Component Type/Percent	Citrate/0.6	Citrate/0.6	Citrate/0.6
Permeability, CORESTA Units	42	25	24
Fiber Type	Woodpulp	Woodpulp	Woodpulp
Filter			
Type		CA	CA
RTD, mm of H_2O	-	59	62
Length, mm	-	24.6	25.0
Weight, g	-	0.14	0.14
Tipping Paper Length, mm/Color	-	30/Cork	30/Cork
Ventilation, %	-	None	None
Filler			
Total Alkaloids, % (DWB)	1.92	1.93	1.83
Total Red. Sugars, % (DWB)	9.7	7.9	7.6
Reconstituted Tob., %	9	9	9
Expanded Stems, %	8	8	8
Expanded Tob., %	21	None	None
Wt. of Tob., g (12.5% OV)	0.957	0.704	0.697
Rod Density, g/cc	0.228	0.245	0.244
Menthol, mg/cigt.			
Smoke	-	-	0.34
Filler	-	-	1.4
Filter	-	-	1.3

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

LIGGETT

EAGLE FULL FLAVOR 100 PLAIN & MENTHOL (SP)

Lorillard is distributing eleven packings of *Eagle* discount cigarettes.

	Eagle	
	Full Flavor 100 (SP)	**Full Flavor Menthol 100 (SP)**
Smoke		
Butt Length, mm	38	38
FTC Tar, mg/cigt.	18.0	17.9
Nicotine, mg/cigt.	1.21	1.22
Puffs/cigt.	9.6	9.9
Filler Rod TPM, mg/cigt.	29.5	29.7
CO, mg/cigt.	16.1	13.3
Cigarette		
Total RTD, mm of H_2O	117	121
Static Burn, Time, min.	7.6	8.1
Length, mm	99.4	99.6
Circumference, mm	24.8	24.8
Paper		
Component Type/Percent	Citrate/0.5	Citrate/0.6
Permeability, CORESTA Units	24	25
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	63	66
Length, mm	30.0	29.7
Weight, g	0.17	0.17
Tipping Paper Length, mm/Color	35/Cork	35/White
Ventilation, %	None	None
Filler		
Total Alkaloids, % (DWB)	1.92	1.92
Total Red. Sugars, % (DWB)	7.8	7.4
Reconstituted Tob., %	9	9
Expanded Stems, %	8	8
Expanded Tob., %	None	None
Wt. of Tob., g (12.5% OV)	0.834	0.848
Rod Density, g/cc	0.246	0.249
Menthol, mg/cigt.		
Smoke	-	0.34
Filler	-	1.5
Filter	-	0.9

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

LIGGETT

EAGLE LIGHTS KS & 100 (SP)
EAGLE LIGHTS MENTHOL KS & 100 (SP)

Liggett is distributing eleven packings of ***Eagle*** discount cigarettes.

	Eagle			
	Lights King Size (SP)	**Lights Menthol King Size (SP)**	**Lights 100 (SP)**	**Lights Menthol 100 (SP)**
Smoke				
Butt Length, mm	33	33	38	38
FTC Tar, mg/cigt.	10.8	10.9	12.1	11.8
Nicotine, mg/cigt.	0.75	0.82	0.95	0.98
Puffs/cigt.	8.1	8.4	9.8	10.4
Filler Rod TPM, mg/cigt.	28.6	29.4	27.0	29.5
CO, mg/cigt.	11.0	9.7	9.5	10.0
Cigarette				
Total RTD, mm of H_2O	115	111	101	98
Static Burn, Time, min.	7.7	7.9	7.0	7.6
Length, mm	83.7	83.5	99.1	99.0
Circumference, mm	24.7	24.8	24.8	24.8
Paper				
Component Type/Percent	Citrate/0.9	Citrate/0.9	Citrate/0.8	Citrate/0.8
Permeability, CORESTA Units	32	31	29	30
Fiber Type	Woodpulp	Woodpulp	Woodpulp	Woodpulp
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	90	86	81	82
Length, mm	25.2	25.0	29.9	30.0
Weight, g	0.15	0.15	0.17	0.18
Tipping Paper Length, mm/Color	30/Cork	30/White	35/Cork	35/White
Ventilation, %	28	25	33	36
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1	Hauni Laser/1
Filler				
Total Alkaloids, % (DWB)	1.88	1.88	1.90	1.98
Total Red. Sugars, % (DWB)	7.6	8.4	7.8	7.4
Reconstituted Tob., %	9	9	9	9
Expanded Stems, %	8	8	8	8
Expanded Tob., %	None	None	None	None
Wt. of Tob., g (12.5% OV)	0.703	0.700	0.811	0.834
Rod Density, g/cc	0.247	0.245	0.240	0.248
Menthol, mg/cigt.				
Smoke	-	0.38	-	0.37
Filler	-	1.8	-	2.2
Filter	-	1.6	-	2.0

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

LIGGETT

EAGLE ULTRA LIGHTS KS & 100 (SP)

Liggett is distributing eleven packings of ***Eagle*** discount cigarettes.

	Eagle	
	Ultra Lights King Size (SP)	**Ultra Lights 100 (SP)**
Smoke		
Butt Length, mm	33	38
FTC Tar, mg/cigt.	5.3	6.7
Nicotine, mg/cigt.	0.48	0.62
Puffs/cigt.	9.5	11.4
Filler Rod TPM, mg/cigt.	28.9	28.8
CO, mg/cigt.	3.6	4.3
Cigarette		
Total RTD, mm of H_2O	80	79
Static Burn, Time, min.	7.9	7.6
Length, mm	83.6	99.1
Circumference, mm	24.8	24.8
Paper		
Component Type/Percent	Citrate/0.9	Citrate/0.9
Permeability, CORESTA Units	31	33
Fiber Type	Woodpulp	Woodpulp
Filter		
Type	CA	CA
RTD, mm of H_2O	86	84
Length, mm	25.1	29.8
Weight, g	0.15	0.17
Tipping Paper Length, mm/Color	30/White	35/White
Ventilation, %	63	61
Type/Rows of Holes	Hauni Laser/1	Hauni Laser/1
Filler		
Total Alkaloids, % (DWB)	1.95	1.97
Total Red. Sugars, % (DWB)	8.5	7.6
Reconstituted Tob., %	9	9
Expanded Stems, %	8	8
Expanded Tob., %	None	None
Wt. of Tob., g (12.5% OV)	0.711	0.863
Rod Density, g/cc	0.248	0.255

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

JAPAN TOBACCO, INC.

WAVE KING SIZE (BOX)

Wave King Size, a discount product manufactured by Japan Tobacco, Inc. is being sold in California.

	Wave King Size (Box)	Marlboro King Size (SP)
Smoke		
Butt Length, mm	33	28
FTC Tar, mg/cigt.	15.6	16.1
Nicotine, mg/cigt.	1.03	1.09
Puffs/Cigt.	8.2	9.6
Efficiency, %	44	44
Filler Rod TPM, mg/cigt.	28.7	31.9
CO, mg/cigt.	14.2	13.2
Cigarette		
Total RTD, mm of H_2O	121	116
Static Burn, min.	8.5	7.9
Length, mm	84.0	84.0
Circumference,mm	25.1	24.9
Paper		
Component Type	Fumarate	Citrate
Component Percent	1.2	0.5
Permeability, CORESTA Units	22	38
Fiber Type	Flax	Flax
Filter		
Type	CA	CA
RTD, mm of H_2O	62	71
Length, mm	25.0	20.9
Weight, g	0.15	0.12
Tipping Paper Length,mm/Color	30/Cork	25/Cork
Ventilation, %	None	12
Filler		
Total Alkaloids, % (DWB)	1.81	1.97
Total Red. Sugars, % (DWB)	6.5	6.8
Reconstituted Tob., %	None	22
Expanded Stems, %	20	3
Expanded Tob., %	None	12
Tobacco Weight, g	0.756	0.748
Rod Density, g/cc	0.256	0.240

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

USA TOBACCO

USA KING SIZE (SP)

USA Tobacco in Richmond, Virginia is manufacturing ***USA King Size*** cigarettes.

	USA King Size (SP)	Marlboro King Size (SP)
Smoke		
Butt Length, mm	28	28
FTC Tar, mg/cigt.	17.7	16.1
Nicotine, mg/cigt.	1.57	1.09
Puffs/Cigt.	9.9	9.6
CO, mg/cigt.	16.5	13.2
Cigarette		
Total RTD, mm of H_2O	124	116
Length, mm	84.0	84.0
Circumference,mm	24.9	24.9
Paper		
Component Type/Percent	Citrate/0.5	Citrate/0.5
Permeability, CORESTA Units	29	38
Fiber Type	Woodpulp	Flax
Filter		
Type	CA	CA
RTD, mm of H_2O	52	71
Length, mm	20.3	20.9
Weight, g	0.12	0.12
Tipping Paper Length,mm/Color	25/Cork	25/Cork
Ventilation, %	None	12
Filler		
Total Alkaloids, % (DWB)	2.25	1.97
Total Red. Sugars, % (DWB)	4.9	6.8
Reconstituted Tob., %	None	22
Expanded Stems, %	None	3
Expanded Tob., %	None	12
Tobacco Weight, g	0.805	0.748
Rod Density, g/cc	0.256	0.240

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

NEW BRANDS

HOUSE OF SAMPOERNA

RAVE INTERNATIONAL LIGHTS 95 PLAIN & MENTHOL (BOX)

Rave International Lights cigarettes are available in North Carolina.

	Rave International Lights 95 (Box)	Rave International Lights Menthol 95 (Box)
Smoke		
Butt Length, mm	36	36
FTC Tar, mg/cigt.	9.2	9.0
Nicotine, mg/cigt.	0.78	0.77
Puffs/Cigt.	9.2	8.9
Filtration Eff., %	45	47
CO, mg/cigt.	4.4	6.3
Cigarette		
Total RTD, mm of H_2O	133	128
Static Burn, Time, min.	7.5	7.2
Length, mm	95.5	95.4
Circumference,mm	22.3	22.4
Paper		
Component Type/Percent	Citrate/0.8	Citrate/0.7
Permeability, CORESTA Units	105*	101*
Filter		
Type	CA	CA
RTD, mm of H_2O	104	102
Length, mm	23.9	23.9
Weight, g	0.12	0.12
Tipping Paper Length,mm/Color	33/White	33/White
Ventilation, %	31	32
Filler		
Total Alkaloids, % (DWB)	1.58	1.58
Total Red. Sugars, % (DWB)	7.1	7.2
Reconstituted Tob., %	None	None
Expanded Stems, %	7	7
Expanded Tob., %	10	10
Tobacco Weight, g	0.700	0.697
Rod Density, g/cc	0.247	0.244
Menthol, mg/cigt.		
Smoke	-	0.12
Filler	-	0.8
Filter	-	0.8

*The cigarette paper is perforated.

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL FULL FLAVOR KS PLAIN & MENTHOL (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production *Dorals*. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings.

	Doral Full Flavor KS (SP)		Doral Full Flavor Menthol KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	28	28	28	28
FTC Tar, mg/cigt.	13.5	15.1	14.5	15.1
Nicotine, mg/cigt.	0.98	1.18	0.82	1.16
Puffs/cigt.	7.9	8.7	8.2	8.6
Filtration Eff., %	47	46	44	46
CO, mg/cigt.	14.7	14.5	13.7	13.9
Cigarette				
Total RTD, mm of H_2O	121	106	115	103
Static Burn. Time, min.	7.4	8.0	8.0	7.9
Length, mm	84.1	84.0	83.8	83.9
Circumference, mm	24.9	24.9	24.9	24.8
Paper				
Component Type/Percent	Phosphorus/0.10	Citrate/0.5	Phosphorus/0.09	Citrate/0.5
Permeability, CORESTA Units	24	25	23	24
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	73	70	70	65
Length, mm	21.0	20.9	21.0	20.9
Weight, g	0.12	0.12	0.12	0.12
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork	25/Cork
Ventilation, %	13	13	15	13
Filler				
Total Alkaloids, % (DWB)	1.62	2.07	1.45	2.04
Total Red. Sugars, % (DWB)	5.6	6.3	5.3	6.1
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	12	None	12	None
Expanded Tob., %	22	16	22	16
Wt. of Tob., g (12.5% OV)	0.661	0.736	0.697	0.741
Rod Density, g/cc	0.213	0.237	0.225	0.240
Menthol, mg/cigt.				
Smoke	-	-	0.52	0.49
Filler	-	-	2.2	2.0
Filter	-	-	0.9	0.9

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL FULL FLAVOR 100 PLAIN & MENTHOL (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production ***Dorals***. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings.

	Doral Full Flavor 100 (SP)		Doral Full Flavor Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	12.2	15.5	13.4	15.7
Nicotine, mg/cigt.	0.88	1.24	0.93	1.28
Puffs/cigt.	8.5	9.5	8.7	9.8
Filtration Eff., %	49	52	51	50
CO, mg/cigt.	15.4	16.5	13.9	15.7
Cigarette				
Total RTD, mm of H_2O	125	117	116	119
Static Burn. Time, min.	7.6	8.1	7.0	7.9
Length, mm	98.3	99.0	98.8	98.8
Circumference, mm	24.7	24.8	24.8	24.9
Paper				
Component Type/Percent	Phosphorus/0.08	Citrate/0.4	Phosphorus/0.10	Citrate/0.4
Permeability, CORESTA Units	22	25	25	24
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	81	76	72	78
Length, mm	30.4	30.5	30.6	30.7
Weight, g	0.17	0.17	0.17	0.17
Tipping Paper Length, mm/Color	35/Cork	35/Cork	35/Cork	35/Cork
Ventilation, %	15	12	11	13
Filler				
Total Alkaloids, % (DWB)	1.74	1.99	1.68	2.03
Total Red. Sugars, % (DWB)	5.2	6.5	6.0	6.5
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	12	None	12	None
Expanded Tob., %	22	16	22	16
Wt. of Tob., g (12.5% OV)	0.733	0.803	0.719	0.817
Rod Density, g/cc	0.222	0.239	0.215	0.242
Menthol, mg/cigt.				
Smoke	-	-	0.48	0.46
Filler	-	-	2.3	2.0
Filter	-	-	1.1	1.1

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Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL LIGHTS KS PLAIN & MENTHOL (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production *Dorals*. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings.

	Doral Lights KS (SP)		Doral Lights Menthol KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	34	34	34	34
FTC Tar, mg/cigt.	8.4	9.7	9.0	9.7
Nicotine, mg/cigt.	0.67	0.83	0.67	0.83
Puffs/cigt.	7.8	8.1	8.3	8.5
Filtration Eff., %	53	52	51	52
CO, mg/cigt.	9.0	9.5	9.9	9.6
Cigarette				
Total RTD, mm of H_2O	102	99	97	95
Static Burn. Time, min.	7.3	8.1	8.1	8.0
Length, mm	84.0	84.1	84.1	84.2
Circumference, mm	25.0	24.9	24.9	24.9
Paper				
Component Type/Percent	Phosphorus/0.08	Citrate/0.5	Phosphorus/0.08	Citrate/0.5
Permeability, CORESTA Units	26	25	24	23
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	93	85	84	86
Length, mm	26.8	26.8	27.1	26.8
Weight, g	0.15	0.15	0.15	0.15
Tipping Paper Length, mm/Color	31/Cork	31/Cork	31/Cork	31/Cork
Ventilation, %	34	31	37	38
Filler				
Total Alkaloids, % (DWB)	1.58	2.06	1.64	2.04
Total Red. Sugars, % (DWB)	6.1	6.2	6.1	6.4
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	12	None	12	None
Expanded Tob., %	22	16	22	16
Wt. of Tob., g (12.5% OV)	0.635	0.664	0.618	0.669
Rod Density, g/cc	0.224	0.235	0.220	0.237
Menthol, mg/cigt.				
Smoke	-	-	0.52	0.53
Filler	-	-	2.5	2.7
Filter	-	-	1.7	1.9

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL LIGHTS 100 PLAIN & MENTHOL (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production ***Dorals***. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings.

	Doral Lights 100 (SP)		Doral Lights Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	10.7	11.7	9.9	10.1
Nicotine, mg/cigt.	0.81	1.03	0.73	0.89
Puffs/cigt.	9.5	10.1	10.1	10.1
Filtration Eff., %	56	49	55	61
CO, mg/cigt.	11.5	10.6	11.7	12.5
Cigarette				
Total RTD, mm of H_2O	97	95	123	117
Static Burn. Time, min.	7.6	7.7	7.8	7.8
Length, mm	99.1	99.0	98.8	98.9
Circumference, mm	24.8	24.8	24.8	24.9
Paper				
Component Type/Percent	Phosphorus/0.09	Citrate/0.6	Phosphorus/0.10	Citrate/0.4
Permeability, CORESTA Units	23	24	24	25
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	78	79	107	108
Length, mm	30.9	30.9	30.4	30.8
Weight, g	0.17	0.17	0.18	0.18
Tipping Paper Length, mm/Color	35/Cork	35/Cork	35/Cork	35/Cork
Ventilation, %	36	37	36	35
Filler				
Total Alkaloids, % (DWB)	1.58	2.02	1.56	2.04
Total Red. Sugars, % (DWB)	5.3	6.3	6.9	6.3
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	12	None	12	None
Expanded Tob., %	22	16	22	16
Wt. of Tob., g (12.5% OV)	0.724	0.793	0.745	0.803
Rod Density, g/cc	0.217	0.237	0.222	0.239
Menthol, mg/cigt.				
Smoke	-	-	0.49	0.54
Filler	-	-	2.9	3.2
Filter	-	-	2.1	2.1

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

DORAL ULTRA LIGHTS KS & 100 (SP)

An increase in expanded tobacco (16 to 22%) and the addition of 12% expanded stems were observed for June production *Dorals*. Lower total alkaloids and lower tobacco weight and rod density were also observed for all packings.

	Doral Ultra Lights KS (SP)		Doral Ultra Lights 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	34	34	39	39
FTC Tar, mg/cigt.	4.9	5.4	5.0	5.5
Nicotine, mg/cigt.	0.43	0.52	0.44	0.52
Puffs/cigt.	8.7	10.0	10.1	11.6
Filtration Eff., %	59	60	62	65
CO, mg/cigt.	5.7	5.7	7.6	6.8
Cigarette				
Total RTD, mm of H_2O	104	104	110	110
Static Burn. Time, min.	7.6	8.9	7.9	8.5
Length, mm	84.1	83.9	98.7	98.7
Circumference, mm	24.9	24.8	24.8	24.8
Paper				
Component Type/Percent	Phosphorus/0.10	Phosphorus/0.20	Phosphorus/0.07	Phosphorus/0.20
Permeability, CORESTA Units	27	25	25	24
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	123	110	134	133
Length, mm	26.8	26.8	31.0	30.7
Weight, g	0.17	0.17	0.19	0.19
Tipping Paper Length, mm/Color	31/White	31/White	36/White	36/White
Ventilation, %	56	53	54	52
Filler				
Total Alkaloids, % (DWB)	1.64	2.01	1.76	2.01
Total Red. Sugars, % (DWB)	6.3	6.0	5.0	6.6
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	12	None	12	None
Expanded Tob., %	22	16	22	16
Wt. of Tob., g (12.5% OV)	0.609	0.672	0.724	0.813
Rod Density, g/cc	0.216	0.240	0.219	0.244

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MAGNA KS (BOX & SP)

An increase in expanded stems (4 to 8%) was observed for the ***Magna*** brand family. These products were also lower in smoke deliveries and total alkaloid content.

	Magna KS (Box)		Magna KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	28	28	28	28
FTC Tar, mg/cigt.	11.6	13.4	12.0	13.8
Nicotine, mg/cigt.	0.73	0.95	0.75	1.00
Puffs/cigt.	7.2	7.2	7.3	7.8
Filtration Eff., %	45	43	46	46
CO, mg/cigt.	13.6	13.5	15.6	14.5
Cigarette				
Total RTD, mm of H_2O	115	117	127	119
Static Burn. Time, min.	6.5	7.3	6.6	7.3
Length, mm	83.1	83.0	84.0	84.0
Circumference, mm	24.6	24.5	24.8	24.9
Paper				
Component Type/Percent	Citrate/0.5	Citrate/0.6	Citrate/0.5	Citrate/0.6
Permeability, CORESTA Units	36	23	22	23
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	70	64	69	63
Length, mm	21.0	20.9	21.0	20.9
Weight, g	0.12	0.13	0.12	0.12
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork	25/Cork
Ventilation, %	10	8	6	9
Filler				
Total Alkaloids, % (DWB)	1.48	2.01	1.58	1.95
Total Red. Sugars, % (DWB)	6.1	5.8	6.1	5.6
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	8	4	8	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.638	0.637	0.664	0.680
Rod Density, g/cc	0.214	0.215	0.215	0.218

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MAGNA LITES KS (SP & BOX)

An increase in expanded stems (4 to 8%) was observed for the ***Magna*** brand family. These products were also lower in smoke deliveries and total alkaloid content.

	Magna Lites KS (Box)		Magna Lites KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	34	34	34	34
FTC Tar, mg/cigt.	9.0	10.7	9.2	10.1
Nicotine, mg/cigt.	0.62	0.79	0.67	0.80
Puffs/cigt.	6.1	6.7	6.8	7.2
Filtration Eff., %	52	50	52	53
CO, mg/cigt.	11.4	11.3	11.4	11.4
Cigarette				
Total RTD, mm of H_2O	123	124	112	116
Static Burn. Time, min.	6.5	7.3	6.6	7.6
Length, mm	82.9	82.9	83.9	83.9
Circumference, mm	24.5	24.5	24.9	24.9
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.6	Citrate/0.6	Citrate/0.5
Permeability, CORESTA Units	26	24	24	24
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	88	82	83	81
Length, mm	26.8	26.8	26.6	26.8
Weight, g	0.16	0.16	0.15	0.15
Tipping Paper Length, mm/Color	31/White	31/White	31/White	31/White
Ventilation, %	12	10	20	16
Filler				
Total Alkaloids, % (DWB)	1.65	2.06	1.68	1.98
Total Red. Sugars, % (DWB)	5.0	5.8	5.3	5.3
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	8	4	8	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.562	0.576	0.613	0.621
Rod Density, g/cc	0.211	0.215	0.216	0.221

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

STERLING MENTHOL KS (SP)
STERLING LIGHTS MENTHOL KS (SP)

An increase in expanded stems (4 to 14%) was observed for the ***Sterling*** brand family. Lower total alkaloids were also noted.

	Sterling Menthol KS (SP)		Sterling Lights Menthol KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	28	28	34	34
FTC Tar, mg/cigt.	12.9	14.2	9.5	9.9
Nicotine, mg/cigt.	0.70	1.05	0.64	0.77
Puffs/cigt.	7.3	7.8	6.7	7.0
Filtration Eff., %	42	45	53	50
CO, mg/cigt.	13.0	13.4	10.5	10.8
Cigarette				
Total RTD, mm of H_2O	123	107	119	114
Static Burn. Time, min.	6.8	7.3	6.2	7.2
Length, mm	83.8	83.9	84.3	84.1
Circumference, mm	25.0	24.9	24.9	25.0
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.5	Citrate/0.6	Citrate/0.5
Permeability, CORESTA Units	28	24	26	23
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	64	64	79	82
Length, mm	20.9	20.9	26.9	26.8
Weight, g	0.12	0.11	0.15	0.14
Tipping Paper Length, mm/Color	25/White	25/White	31/White	31/White
Ventilation, %	8	8	17	18
Filler				
Total Alkaloids, % (DWB)	1.55	1.97	1.79	1.93
Total Red. Sugars, % (DWB)	5.1	5.2	5.6	5.6
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	14	4	14	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.661	0.692	0.604	0.621
Rod Density, g/cc	0.212	0.222	0.213	0.219
Menthol, mg/cigt.				
Smoke	0.46	0.50	0.45	0.45
Filler	2.2	1.9	2.2	2.0
Filter	0.9	1.1	1.9	1.8

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

STERLING 100 PLAIN & MENTHOL (SP)

An increase in expanded stems (4 to 14%) was observed for the ***Sterling*** brand family. Lower total alkaloids were also noted.

	Sterling 100 (SP)		Sterling Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	14.2	14.7	14.2	15.3
Nicotine, mg/cigt.	0.95	1.05	0.91	1.09
Puffs/cigt.	8.2	8.3	8.4	8.3
Filtration Eff., %	51	50	51	51
CO, mg/cigt.	17.7	17.2	17.6	18.1
Cigarette				
Total RTD, mm of H_2O	136	140	141	133
Static Burn. Time, min.	7.0	7.8	7.7	7.9
Length, mm	98.6	98.6	98.6	98.8
Circumference, mm	24.9	24.8	24.9	24.9
Paper				
Component Type/Percent	Phosphorus/0.09	Phosphorus/0.20	Phosphorus/0.08	Phosphorus/0.20
Permeability, CORESTA Units	26	24	24	25
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	80	80	80	77
Length, mm	30.7	30.8	30.6	30.8
Weight, g	0.17	0.17	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White	35/White	35/White
Ventilation, %	None	None	None	None
Filler				
Total Alkaloids, % (DWB)	1.58	1.90	1.65	1.87
Total Red. Sugars, % (DWB)	6.7	5.5	6.0	5.8
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	14	4	14	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.757	0.721	0.736	0.718
Rod Density, g/cc	0.226	0.217	0.220	0.214
Menthol, mg/cigt.				
Smoke	-	-	0.55	0.50
Filler	-	-	2.6	2.0
Filter	-	-	0.9	1.2

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

STERLING LIGHTS 100 PLAIN & MENTHOL (SP)

An increase in expanded stems (4 to 14%) was observed for the ***Sterling*** brand family. Lower total alkaloids were also noted.

	Sterling Lights 100 (SP)		Sterling Lights Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	9.5	10.6	9.1	9.6
Nicotine, mg/cigt.	0.68	0.85	0.72	0.81
Puffs/cigt.	8.7	8.7	9.3	9.1
Filtration Eff., %	52	50	49	50
CO, mg/cigt.	11.6	11.4	10.4	9.6
Cigarette				
Total RTD, mm of H_2O	114	100	92	93
Static Burn. Time, min.	6.7	7.2	6.5	7.1
Length, mm	98.7	98.6	98.8	99.0
Circumference, mm	24.7	24.8	24.8	24.8
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.6	Citrate/0.5	Citrate/0.5
Permeability, CORESTA Units	26	25	28	23
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	83	76	84	77
Length, mm	30.8	30.6	30.5	30.7
Weight, g	0.17	0.17	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White	35/White	35/White
Ventilation, %	29	26	40	37
Filler				
Total Alkaloids, % (DWB)	1.66	2.01	1.64	1.91
Total Red. Sugars, % (DWB)	5.5	5.8	6.2	5.4
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	14	4	14	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.721	0.729	0.731	0.730
Rod Density, g/cc	0.218	0.219	0.218	0.218
Menthol, mg/cigt.				
Smoke	-	-	0.50	0.47
Filler	-	-	2.9	2.5
Filter	-	-	1.9	2.0

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

STERLING SLIM LIGHTS 100 PLAIN & MENTHOL (BOX)

An increase in expanded stems (4 to 14%) was observed for the ***Sterling*** brand family. Lower total alkaloids were also noted.

	Sterling Slim Lights 100 (Box)		Sterling Slim Lights Menthol 100 (Box)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	7.8	7.8	7.5	8.3
Nicotine, mg/cigt.	0.58	0.64	0.53	0.69
Puffs/cigt.	7.2	7.6	7.2	7.7
Filtration Eff., %	48	47	50	48
CO, mg/cigt.	7.4	9.0	6.9	8.4
Cigarette				
Total RTD, mm of H_2O	114	123	123	119
Static Burn. Time, min.	5.7	6.6	5.4	6.5
Length, mm	97.7	97.7	97.9	97.7
Circumference, mm	22.7	22.6	22.6	22.7
Paper				
Component Type/Percent	Citrate/1.0	Citrate/0.9	Citrate/1.0	Citrate/0.9
Permeability, CORESTA Units	40	38	40	36
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	95	101	104	97
Length, mm	30.8	30.8	30.9	30.8
Weight, g	0.15	0.15	0.15	0.15
Tipping Paper Length, mm/Color	35/White	35/White	35/White	35/White
Ventilation, %	38	36	36	34
Filler				
Total Alkaloids, % (DWB)	1.64	2.07	1.50	1.99
Total Red. Sugars, % (DWB)	5.9	5.8	7.0	5.5
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	14	4	14	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.578	0.596	0.578	0.596
Rod Density, g/cc	0.210	0.218	0.212	0.217
Menthol, mg/cigt.				
Smoke	-	-	0.41	0.44
Filler	-	-	2.2	2.2
Filter	-	-	2.3	2.1

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

STERLING ULTRA LIGHTS 100 PLAIN & MENTHOL (SP)

An increase in expanded stems (4 to 14%) was observed for the *Sterling* brand family. Lower total alkaloids were also noted.

	Sterling Ultra Lights 100 (SP)		Sterling Ultra Lights Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	4.3	4.4	5.3	4.5
Nicotine, mg/cigt.	0.33	0.42	0.43	0.44
Puffs/cigt.	9.0	9.5	9.0	9.7
Filtration Eff., %	62	64	63	63
CO, mg/cigt.	4.8	6.3	4.9	5.8
Cigarette				
Total RTD, mm of H_2O	108	107	104	105
Static Burn. Time, min.	6.5	7.1	6.5	7.0
Length, mm	98.7	98.7	99.0	98.9
Circumference, mm	24.8	24.9	24.9	24.9
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.5	Citrate/0.6	Citrate/0.5
Permeability, CORESTA Units	23	26	23	26
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	139	134	119	132
Length, mm	30.9	30.8	30.9	30.9
Weight, g	0.19	0.20	0.20	0.19
Tipping Paper Length, mm/Color	35/White	35/White	35/White	35/White
Ventilation, %	58	56	59	59
Filler				
Total Alkaloids, % (DWB)	1.61	2.07	1.67	1.98
Total Red. Sugars, % (DWB)	5.6	5.4	5.8	5.3
Reconstituted Tob., %	30	32	30	32
Expanded Stems, %	14	4	14	4
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.708	0.730	0.713	0.721
Rod Density, g/cc	0.213	0.218	0.212	0.215
Menthol, mg/cigt.				
Smoke	-	-	0.30	0.29
Filler	-	-	2.8	2.9
Filter	-	-	2.7	2.6

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MONARCH FULL FLAVOR KS PLAIN & MENTHOL (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

	Monarch Full Flavor KS (SP)		Monarch Full Flavor Menthol KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	28	28	28	-
FTC Tar, mg/cigt.	13.2	14.3	14.1	-
Nicotine, mg/cigt.	0.89	1.14	0.91	-
Puffs/cigt.	7.5	7.8	7.5	-
Filtration Eff., %	45	44	42	-
Filler Rod TPM, mg/cigt.	27.0	30.6	26.8	-
CO, mg/cigt.	12.4	13.8	13.8	-
Cigarette				
Total RTD, mm of H_2O	118	106	117	-
Static Burn. Time, min.	6.7	7.8	6.9	-
Length, mm	83.9	83.6	84.1	-
Circumference, mm	24.9	24.9	24.8	-
Paper				
Component Type/Percent	Citrate/0.5	Citrate/0.5	Citrate/0.6	-
Permeability, CORESTA Units	23	25	24	-
Filter				
Type	CA	CA	CA	-
RTD, mm of H_2O	65	69	60	-
Length, mm	20.8	20.7	20.9	-
Weight, g	0.12	0.12	0.12	-
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork	-
Ventilation, %	10	6	8	-
Filler				
Total Alkaloids, % (DWB)	1.70	2.02	1.76	-
Total Red. Sugars, % (DWB)	6.6	5.1	6.0	-
Reconstituted Tob., %	30	33	30	-
Expanded Stems, %	6	None	6	-
Expanded Tob., %	22	21	22	-
Wt. of Tob., g (12.5% OV)	0.670	0.679	0.671	-
Rod Density, g/cc	0.215	0.219	0.217	-
Menthol, mg/cigt.				
Smoke	-	-	0.47	-
Filler	-	-	1.9	-
Filter	-	-	1.1	-

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MONARCH FULL FLAVOR 100 PLAIN & MENTHOL (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

	Monarch Full Flavor 100 (SP)		Monarch Full Flavor Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	-
FTC Tar, mg/cigt.	14.5	15.8	14.5	-
Nicotine, mg/cigt.	1.07	1.20	0.92	-
Puffs/cigt.	8.4	8.3	8.3	-
Filtration Eff., %	53	53	52	-
Filler Rod TPM, mg/cigt.	29.0	33.3	28.7	-
CO, mg/cigt.	16.5	20.0	17.2	-
Cigarette				
Total RTD, mm of H_2O	139	132	141	-
Static Burn. Time, min.	6.8	8.5	7.5	-
Length, mm	98.6	98.8	98.7	-
Circumference, mm	24.8	24.8	24.8	-
Paper				
Component Type/Percent	Phosphorus/0.09	Phosphorus/0.20	Phosphorus/0.10	-
Permeability, CORESTA Units	23	23	23	-
Filter				
Type	CA	CA	CA	-
RTD, mm of H_2O	80	84	76	-
Length, mm	30.7	30.6	30.9	-
Weight, g	0.17	0.18	0.17	-
Tipping Paper Length, mm/Color	35/Cork	35/Cork	35/Cork	-
Ventilation, %	None	None	None	-
Filler				
Total Alkaloids, % (DWB)	1.79	1.97	1.52	-
Total Red. Sugars, % (DWB)	6.9	6.3	6.3	-
Reconstituted Tob., %	30	33	30	-
Expanded Stems, %	6	None	6	-
Expanded Tob., %	22	21	22	-
Wt. of Tob., g (12.5% OV)	0.724	0.725	0.733	-
Rod Density, g/cc	0.218	0.217	0.221	-
Menthol, mg/cigt.				
Smoke	-	-	0.48	-
Filler	-	-	2.2	-
Filter	-	-	1.2	-

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MONARCH LIGHTS KS PLAIN & MENTHOL (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

	Monarch Lights KS (SP)		Monarch Lights Menthol KS (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	34	34	34	34
FTC Tar, mg/cigt.	9.5	10.4	9.8	10.1
Nicotine, mg/cigt.	0.62	0.89	0.71	0.84
Puffs/cigt.	6.9	7.3	6.9	7.0
Filtration Eff., %	51	52	53	53
Filler Rod TPM, mg/cigt.	25.0	28.9	24.8	28.2
CO, mg/cigt.	10.1	11.6	12.0	11.3
Cigarette				
Total RTD, mm of H_2O	123	109	123	105
Static Burn. Time, min.	6.7	7.5	7.1	7.6
Length, mm	84.0	83.3	83.9	83.9
Circumference, mm	24.8	24.9	24.8	25.0
Paper				
Component Type/Percent	Citrate/0.6	Citrate/0.5	Citrate/0.6	Citrate/0.5
Permeability, CORESTA Units	25	24	24	24
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	88	89	83	89
Length, mm	26.8	26.6	26.8	26.7
Weight, g	0.15	0.16	0.15	0.14
Tipping Paper Length, mm/Color	31/White	31/White	31/White	31/White
Ventilation, %	18	16	18	20
Filler				
Total Alkaloids, % (DWB)	1.69	2.10	1.68	2.00
Total Red. Sugars, % (DWB)	5.6	5.7	6.6	5.5
Reconstituted Tob., %	30	33	30	33
Expanded Stems, %	6	None	6	None
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.614	0.629	0.610	0.616
Rod Density, g/cc	0.219	0.225	0.218	0.217
Menthol, mg/cigt.				
Smoke	-	-	0.38	0.49
Filler	-	-	2.1	1.9
Filter	-	-	1.9	1.6

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MONARCH LIGHTS 100 PLAIN & MENTHOL (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

	Monarch Lights 100 (SP)		Monarch Lights Menthol 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	38	38	38	38
FTC Tar, mg/cigt.	9.5	9.9	9.8	10.4
Nicotine, mg/cigt.	0.76	0.87	0.76	0.93
Puffs/cigt.	8.4	8.3	8.6	8.5
Filtration Eff., %	48	50	50	49
Filler Rod TPM, mg/cigt.	23.8	28.6	26.3	27.9
CO, mg/cigt.	9.5	12.0	9.4	10.9
Cigarette				
Total RTD, mm of H_2O	96	94	96	86
Static Burn. Time, min.	6.2	6.9	6.3	7.1
Length, mm	98.8	98.4	98.9	98.8
Circumference, mm	24.8	24.7	24.9	24.8
Paper				
Component Type/Percent	Citrate/0.9	Citrate/1.0	Citrate/1.0	Citrate/0.9
Permeability, CORESTA Units	37	45	40	43
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	76	81	73	74
Length, mm	31.0	30.6	30.9	30.9
Weight, g	0.17	0.18	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White	35/White	35/White
Ventilation, %	34	32	32	35
Filler				
Total Alkaloids, % (DWB)	1.74	1.96	1.70	1.98
Total Red. Sugars, % (DWB)	7.0	6.4	6.7	5.3
Reconstituted Tob., %	30	33	30	33
Expanded Stems, %	6	None	6	None
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.709	0.722	0.727	0.719
Rod Density, g/cc	0.214	0.219	0.217	0.216
Menthol, mg/cigt.				
Smoke	-	-	0.47	0.52
Filler	-	-	2.7	2.3
Filter	-	-	2.1	1.9

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

BRAND MODIFICATIONS

R. J. REYNOLDS

MONARCH ULTRA LIGHTS KS & 100 (SP)

The addition of 6% expanded stems was observed for the ***Monarch*** brand family. All packings were lower in total alkaloid content.

	Monarch Ultra Lights KS (SP)		Monarch Ultra Lights 100 (SP)	
	June Production	Previous	June Production	Previous
Smoke				
Butt Length, mm	34	34	38	38
FTC Tar, mg/cigt.	5.1	5.1	3.8	5.2
Nicotine, mg/cigt.	0.45	0.57	0.32	0.52
Puffs/cigt.	9.2	9.1	8.6	9.0
Filtration Eff., %	58	58	65	61
Filler Rod TPM, mg/cigt.	33.8	32.3	22.5	27.1
CO, mg/cigt.	6.0	6.3	5.8	7.1
Cigarette				
Total RTD, mm of H_2O	96	99	116	109
Static Burn. Time, min.	8.6	8.1	5.7	6.7
Length, mm	84.1	83.9	99.0	98.2
Circumference, mm	24.9	24.8	24.8	24.8
Paper				
Component Type/Percent	Phosphorus/0.11	Phosphorus/0.20	Citrate/0.9	Citrate/1.2
Permeability, CORESTA Units	19	25	39	40
Filter				
Type	CA	CA	CA	CA
RTD, mm of H_2O	109	117	135	131
Length, mm	26.9	26.8	31.2	30.6
Weight, g	0.17	0.17	0.20	0.20
Tipping Paper Length, mm/Color	31/White	31/White	35/White	35/White
Ventilation, %	58	54	55	52
Filler				
Total Alkaloids, % (DWB)	1.71	1.99	1.60	2.03
Total Red. Sugars, % (DWB)	7.2	5.0	6.4	5.1
Reconstituted Tob., %	30	33	30	33
Expanded Stems, %	6	None	6	None
Expanded Tob., %	22	21	22	21
Wt. of Tob., g (12.5% OV)	0.618	0.627	0.713	0.719
Rod Density, g/cc	0.219	0.224	0.215	0.217

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001

PACKAGING CHANGE

R. J. REYNOLDS

WINSTON SELECT KS (SP & BOX)

The ***Winston Select King Size (Soft Pack and Box)*** currently on the market underwent a graphics change at the same time the new Winston Select Lights were introduced. The name "Select" is larger than Winston on the new packaging and there is a blue "banner" under the word "Select." Lower smoke deliveries were observed for the current packings, correlating with a more permeable cigarette paper and higher ventilation.

	Winston Select King Size (Soft Pack)		**Winston Select King Size (Box)**	
	Current	Previous	Current	Previous
Smoke				
Butt Length, mm	28	28	28	28
FTC Tar, mg/cigt.	15.8	18.5	16.7	19.0
Nicotine, mg/cigt.	1.08	1.44	1.13	1.49
Puffs/cigt.	9.2	9.0	9.0	8.9
Cigarette				
Total RTD, mm of H_2O	118	115	113	110
Paper				
Permeability, CORESTA Units	39	25	40	28
Filter				
RTD, mm of H_2O	75	73	73	67
Tipping Paper Length, mm/Color	25/Cork	25/Cork	25/Cork	25/Cork
Ventilation, %	15	6	13	7
Filler				
Reconstituted Tob., %	25	25	25	25
Expanded Stems, %	None	None	None	None
Expanded Tob., %	7	7	7	7
Wt. of Tob., g (12.5% OV)	0.748	0.752	0.722	0.720

Source: https://www.industrydocuments.ucsf.edu/docs/yqnk0001